Index of Claims

Application/Control No.

10/722,609 Examiner

Reexamination NAKAJIMA, AKIRA

Applicant(s)/Patent under

Art Unit

Tuan Quach

2826

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N ı Interference

**Appeal** Α 0 Objected

| 1<br>2<br>3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>13<br>13<br>7<br>14<br>15 | 1 2 3 4 5 5 6 7 8 9 110 111 12 113 114 115 116 117 118                                       | 8/3/02                                  |               |              | Date |       |        |          |   |     | Final | 51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59 |               |         |    | Date     |          |          |   |
|--|--|---|---------------|--------------|------|-------|--------|----------|---|-----|-------|--|---------------|---------|----|----------|----------|----------|---|
| 1<br>2<br>3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>13<br>7<br>14<br>15       | 1 2 3 4 5 6 6 7 8 9 110 111 112 113 114 115 116 117 118                                      |   |               |              |      |       |        |          |   |     | Final | 51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59 |               |         |    |          |          |          |   |
| 1<br>2<br>3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>13<br>7<br>14<br>15       | 1 2 3 4 5 6 6 7 8 9 110 111 112 113 114 115 116 117 118                                      |   |               |              |      |       |        |          |   |     | Fin   | 51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59 |               |         |    |          |          |          |   |
| 1<br>2<br>3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>13<br>7<br>14<br>15       | 1 2 3 4 5 6 6 7 8 9 110 111 112 113 114 115 116 117 118                                      |   |               |              |      |       |        |          |   |     |       | 51<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59 |               |         |    |          |          |          |   |
| 2<br>3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>6<br>13<br>7<br>14<br>15       | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18        |   |               |              |      |       |        |          |   |     |       | 52<br>53<br>54<br>55<br>56<br>57<br>58<br>59       |               |         |    |          |          |          |   |
| 2<br>3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>6<br>13<br>7<br>14<br>15       | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18        |   |               |              |      |       |        |          |   |     |       | 52<br>53<br>54<br>55<br>56<br>57<br>58<br>59       |               |         |    |          |          |          |   |
| 2<br>3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>6<br>13<br>7<br>14<br>15       | 3 4 5 6 7 8 9 10 111 112 113 114 115 116 117 118   |   |               |              |      |       |        |          |   |     |       | 53<br>54<br>55<br>56<br>57<br>58<br>59             |               |         |    |          |          |          |   |
| 3<br>8<br>5<br>4<br>9<br>10<br>11<br>12<br>13<br>7<br>14<br>15                 | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>11<br>12<br>13<br>14<br>14<br>15<br>16<br>17<br>18 |   |               |              |      |       |        |          |   |     |       | 54<br>55<br>56<br>57<br>58<br>59                   |               |         |    |          |          |          |   |
| 8 5 4 9 10 11 12 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1                                | 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                  | = |               |              |      |       |        |          |   |     |       | 55<br>56<br>57<br>58<br>59                         |               |         |    |          |          |          |   |
| 5<br>4<br>9<br>10<br>11<br>12<br>6<br>13<br>7<br>14<br>15                      | 6<br>7<br>8<br>9<br>10<br>11<br>13<br>13<br>14<br>15<br>16<br>17<br>18                       | = |               |              |      |       |        |          |   |     |       | 56<br>57<br>58<br>59                               |               |         |    |          |          |          |   |
| 6 1<br>13 1<br>14 1<br>15 1  | 7<br>8<br>9<br>10<br>11<br>13<br>13<br>14<br>15<br>16<br>17                                  | = |               |              |      |       |        |          |   |     |       | 57<br>58<br>59                                     |               |         |    |          |          |          |   |
| 9<br>10<br>11<br>12<br>1<br>6<br>13<br>1<br>7<br>14<br>1<br>15                 | 8<br>9<br>10<br>11<br>13<br>13<br>14<br>15<br>16<br>17                                       | = |               |              |      |       |        |          |   |     |       | 58<br>59   |               | -       |    |          |          |          |   |
| 10<br>11<br>12<br>6<br>13<br>7<br>14<br>15                                     | 9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17  | = = =                                   |               |              |      |       |        |          |   |     |       | 59   | -             | +       |    |          |          |          | F |
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| 6 1<br>13 1<br>7 1<br>14 1<br>15 1   | 13<br>14<br>15<br>16<br>17   | =                                       |               |              |      |       |        |          |   |     |       | 61   | $\neg \vdash$ |         |    |          |          |          | Γ |
| 7 1<br>14 1<br>15 1  | 14<br>15<br>16<br>17<br>18   | =                                       |               |              |      |       |        |          |   |     |       | 62   | $\neg$        |         |    |          |          |          | Γ |
| 7 1<br>14 1<br>15 1  | 16<br>17<br>18   | =                                       |               |              |      |       |        |          |   |     |       | 63   |               |         |    |          |          |          | Γ |
| 7 1<br>14 1<br>15 1  | 16<br>17<br>18   |   |               |              |      |       |        |          |   |     |       | 64   | $\neg$        |         |    |          |          |          | Γ |
| 14 1<br>15 1   | 17<br>18   |   | 1             |              |      |       |        |          |   |     |       | 65   |               | 1       | Π  |          |          |          | Γ |
| 15 1   | 18   | =                                       |               |              |      |       |        |          |   |     |       | 66   |               |         | Π  |          |          |          | Γ |
| 15 1   | 18   |   |               |              |      |       |        |          |   |     |       | 67   |               | 1       |    |          |          |          | Γ |
|  | 46   | =                                       | П             |              |      |       |        |          |   |     |       | 68   |               |         |    |          |          |          | Γ |
| 1 1  | 1 <b>19</b>  |   | $\Box$        |              |      |       |        |          |   | ĺĺ  |       | 69   |               |         |    |          | -        |          | Г |
| 2  | 119<br>210   |   |               |              |      |       |        |          |   |     |       | 70   |               |         |    |          |          |          | Г |
|  | 21   |   |               |              |      |       |        | _        |   |     |       | 71   |               |         |    |          |          |          | Γ |
|  | 22   |   | $\Box$        |              |      |       |        |          |   |     |       | 72   |               | 1       | Π  |          |          |          | Γ |
|  | 23   |   | П             |              |      |       |        |          |   |     |       | 73   |               |         |    |          |          |          | Г |
|  | 24   |   |               |              |      |       |        |          |   |     |       | 74   |               |         |    |          |          |          | Г |
|  | 25   |   |               |              |      |       |        |          |   |     |       | 75   |               |         |    |          |          |          | Г |
|  | 26   |   |               |              |      |       |        |          |   |     |       | 76   |               |         |    |          |          |          | Г |
| 1  | 27   |   |               |              |      |       |        |          |   |     |       | 77   |               |         |    |          |          |          | Γ |
|  | 28   |   |               |              |      |       |        |          |   |     |       | 78   |               |         |    |          |          |          |   |
| 2  | 29   |   |               |              |      |       |        |          |   |     |       | 79   |               |         |    |          |          |          |   |
|  | 30   |   |               |              |      |       |        |          |   |     |       | 80   |               |         |    |          |          |          | Г |
| 3  | 31   |   |               |              |      |       |        |          |   |     |       | 81   |               |         |    |          |          |          |   |
| 3  | 32   |   |               |              |      |       |        |          |   |     |       | 82   |               |         |    |          |          |          |   |
|  | 33   |   |               |              |      |       |        |          |   |     |       | 83   |               |         |    |          |          |          |   |
|  | 34   |   |               |              |      |       |        |          |   |     |       | 84   |               |         |    |          |          |          |   |
| 3  | 35   |   |               |              |      |       |        |          |   |     |       | 85   |               |         |    |          |          |          | L |
|  | 36   |   |               |              |      |       |        |          |   |     |       | 86   |               |         |    |          |          |          | L |
|  | 37   |   |               |              |      |       |        |          |   | [   |       | 87   | $\bot$        |         |    |          |          |          | Ĺ |
|  | 38   |   | oxdot         |              |      |       |        |          |   | [   |       | 88   |               |         | L  |          | L        |          | L |
|  | 39   |   | $oxed{oxed}$  |              |      |       | $\Box$ |          |   | [   |       | 89   |               |         | L  |          |          | L        | L |
|  | 40   |   |               | $oxed{oxed}$ |      |       | $\Box$ |          |   |     |       | 90   |               |         |    |          |          |          | L |
|  | 41   |   | $oxed{oxed}$  |              |      |       |        |          |   |     |       | 91   |               | $\perp$ |    |          |          |          | L |
|  | 42   |   | $oxed{oxed}$  |              |      | oxdot |        |          |   | [   |       | 92   |               |         |    |          |          |          | L |
|  | 43   |   | $oxed{oxed}$  |              |      |       |        | L        |   |     |       | 93   | $\Box$        |         |    |          |          |          | L |
|  | 44   |   |               |              |      |       |        |          |   |     |       | 94   |               |         |    | _        |          |          | Ĺ |
|  | 45   | _                                       | $\Box$        |              |      |       |        |          | _ |     |       | 95   |               | $\perp$ | 1_ |          | L.       | <u> </u> | L |
|  | 46   |   |               |              |      |       |        |          |   |     |       | 96   |               | $\perp$ | _  |          | _        |          | L |
|  | 47   |   | $\sqcup$      |              |      |       |        |          | _ |     |       | 97   |               | _       |    |          |          |          | L |
|  | 48   |   | $\sqcup$      |              |      |       |        |          |   |     |       | 98   |               |         |    | L.       |          |          | L |
|  | 49   | _ _                                     | $\perp \perp$ | Ш            |      | Ш     |        | <u></u>  |   | [ ] |       | 99   |               | $\perp$ | 1_ | <u> </u> | <u> </u> | <u> </u> | L |
|  | 50   |   | Ш             |              |      |       |        | <u> </u> |   | IJ  |       | 100  |               |         | 1_ |          | <u> </u> | <u>L</u> | L |

| Cla          | aim            |          |          |          |  | Date         | •            |              |  |          |
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|              | 51             |          |          | _        | Н  |              | _            |              |  |          |
|              | 52<br>53       |          | _        |          |  |              |              |              |  |          |
|              | 53             |          | _        |          | _  |              |              |              |  |          |
|              | 54             |          |          |          |  |              |              |              |  |          |
|              | 55             |          | L.,      |          |  |              |              |              |  |          |
|              | 56             |          |          |          |  |              |              |              |  |          |
|              | 57             |          |          |          |  |              |              |              |  |          |
|              | 58<br>59       |          |          |          |  |              |              |              |  |          |
|              | 59             |          |          |          |  |              |              |              |  |          |
|              | 60             |          |          |          |  |              |              |              |  |          |
|              | 61             |          |          |          |  |              |              |              |  |          |
|              | 62             |          |          |          |  |              |              |              |  |          |
|              | 63             |          |          |          |  |              |              |              |  |          |
|              | 63<br>64<br>65 |          |          |          |  |              |              |              |  |          |
|              | 65             |          |          |          |  |              |              |              |  |          |
|              | 60             |          |          |          | -  |              |              |              |  |          |
|              | 66<br>67       |          | _        | _        | _  |              |              |              |  |          |
| -            | 6/             |          | _        |          |  |              | _            |              |  |          |
|              | 68             |          |          |          |  |              |              |              |  |          |
|              | 69             |          |          |          |  |              |              |              |  |          |
|              | 70             |          |          |          |  |              |              |              |  |          |
| L            | 71<br>72<br>73 |          |          |          |  |              |              |              |  |          |
|              | 72             |          |          |          |  |              |              |              |  |          |
|              | 73             |          |          |          |  |              |              |              |  |          |
|              | 74<br>75       |          |          |          |  |              |              |              |  |          |
|              | 75             |          |          |          |  |              |              |              |  |          |
|              | 76             |          |          |          |  |              |              |              |  |          |
|              | 77             |          |          |          |  |              |              |              |  |          |
|              | 78             |          |          |          |  |              |              |              |  |          |
| -            | 79             |          |          |          | -  | -            | -            | _            | _  |          |
| <del> </del> | 80             | $\vdash$ |          | -        | -  | -            |              |              | -  | _        |
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| -            | 82             | $\vdash$ | _        | _        | -  | _            | -            |              |  |          |
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| <u> </u>     | 86             | <u> </u> | _        | <u> </u> | $oxed{}$   | Ш            |              |              | Ш  |          |
| L            | 87             | _        | _        | _        |  |              | Ш            |              |  |          |
|              | 88             |          |          | _        | L_   | <u>_</u>     | L            |              | L  | L        |
|              | 89             | L        | L        | <u> </u> | L_   |              | Щ.           |              |  |          |
| L            | 90             | _        |          |          | $ldsymbol{ld}}}}}}$ |              |              |              |  |          |
|              | 91             | L        | L        | L        |  |              |              |              |  |          |
|              | 92             |          | L        |          |  |              |              |              |  |          |
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| Claim |  |  |          |          | (  | Date                                | €        |          |                                     |                 |
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| Final | Original   |  |          |          |  |                                     |          |          |                                     |                 |
|       | 101  |  |          | _        |  |                                     |          |          | _                                   | _               |
|       | 101  |  |          | ┝        |  | _                                   |          |          |                                     | $\dashv$        |
|       | 102  | H  | -        | -        | -  |                                     |          | ┝        |                                     | $\dashv$        |
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|       | 107  |  |          | $\vdash$ |  |                                     |          |          |                                     | $\dashv$        |
|       | 107<br>108<br>109  | _  | -        | <u> </u> | _  |                                     |          | _        |                                     | Н               |
|       | 109  |  |          | $\vdash$ |  |                                     |          | $\vdash$ | _                                   | $\dashv$        |
|       | 110  |  |          |          |  |                                     |          |          |                                     | $\Box$          |
|       | 111  |  |          | Г        |  |                                     |          |          |                                     | П               |
|       | 112  |  |          |          |  |                                     |          |          |                                     |                 |
|       | 113  |  |          |          |  |                                     |          |          |                                     |                 |
|       | 114  |  |          |          |  |                                     |          |          |                                     |                 |
|       | 110<br>111<br>112<br>113<br>114<br>115<br>116  |  |          |          |  |                                     |          |          |                                     |                 |
|       | 116  |  |          |          |  |                                     |          |          |                                     |                 |
|       | 117  |  |          | <u> </u> |  |                                     |          |          |                                     | Ш               |
|       | 118<br>119   | _  |          | <u> </u> | _  |                                     |          | <u> </u> |                                     | Ш               |
|       | 119  | L  | L        |          |  |                                     |          | _        |                                     |                 |
|       | 120  | <u> </u>   |          | _        |  |                                     |          | ļ        | <u> </u>                            | Щ               |
|       | 121  | <u> </u>   | <u> </u> |          | _  |                                     |          | _        |                                     | _               |
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|       | 123  | ├  |          |          |  | ┝                                   |          | _        | -                                   | $\vdash \vdash$ |
|       | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133 | $\vdash$   |          |          | -  | $\vdash$                            | $\vdash$ | $\vdash$ | $\vdash$                            | Н               |
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|       | 135  | <u> </u>   | L        | _        | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Щ               |
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|       | 138  | ⊢  | <u> </u> |          | _  | _                                   | _        | ┝        | _                                   | Н               |
|       | 139<br>140   | $\vdash$   | ├        | $\vdash$ | $\vdash$                                     | -                                   | $\vdash$ | -        | $\vdash$                            | Н               |
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|       | 142  |  | -        | ├        |  | $\vdash$                            | $\vdash$ |          |                                     | Н               |
|       | 143  | <del>                                     </del> | $\vdash$ | $\vdash$ | $\vdash$                                     | $\vdash$                            | -        | $\vdash$ | $\vdash$                            | Н               |
|       | 144  |  | $\vdash$ | $\vdash$ | -  | $\vdash$                            |          | $\vdash$ |                                     | $\vdash$        |
|       | 145  | <u> </u>   | -        | $\vdash$ | $\vdash$                                     | H                                   | H        | $\vdash$ | T                                   | $\vdash$        |
|       | 146  | Г  | $\vdash$ | Т        | 一  |                                     | $\vdash$ | Ħ        | $\vdash$                            | M               |
|       | 147  |  |          |          | $\vdash$                                     |                                     | Γ        |          |                                     | П               |
|       | 148  |  | Г        |          | Г  |                                     |          |          |                                     | П               |
|       | 149  |  |          |          |  |                                     |          |          |                                     |                 |
|       | 150  |  |          |          |  |                                     |          |          |                                     |                 |
|       |  |  |          |          |  |                                     |          |          |                                     |                 |